

BIBLIOGRAPHICAL RECORD.

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A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.

Corrections of errors and notices of omissions are solicited.

Bieler, S. [Pièces buccales d'un gamasid uropode.] (Bull. Soc. vaudoise des sci. nat., Dec. 1880, s. 2, v. 17; Procès-verbaux, p. 8.).

Brief note on the trophi of a gamasid mite.
G: D. (3202)

Boden, C: J. *Pulex* feeding on lepidopterous larvae. (Entomologist, March 1882, v. 15, p. 70.)

Pulex irritans observed sucking the juices of larvae of *ocophora pseudospretella* and *endrosis senestrella*.
G: D. (3203)

Borgmann, Hugo. Vorschläge zur präparation. (Entom. nachrichten, 1 Jan. 1881, jahrg. 7, p. 13-14.)

Discussion of proper length of insect pins, and of the height at which insects should be placed on the pins.
G: D. (3204)

Borgmann, Hugo. Zur anziehungskraft des lampenlichts auf nachtschmetterlinge und andere insecten. (Entom. nachrichten, 15 March 1881, jahrg. 7, p. 88-90.)

Gives formula for, and requests observations on the influence of elevation above sea-level, of temperature, hygroscopic condition, direction of the wind, condition of the weather, etc., on the attraction of insects by lights.
G: D. (3205)

Bowles, G: J: Entomology for beginners. Migratory insects. (Can. entom., July 1880, v. 12, p. 130-137.)

Notes on migrations of insects, especially of *catoctenus spretus*, *danaus archippus* and *pyrameis cardui*.
G: D. (3206)

Chambers, Victor Tousey. A new species of *cemistoma*. *Micro-lépidoptera, tineina*. (Can. entom., June 1871, v. 3, p. 23-25.)

Describes *cemistoma albella*, a new species, of which the larva mines the leaves of *populus alba* and *p. dilatata*.
G: D. (3207)

Cooke, E: Naphthaline. (Entomologist, Nov. 1882, v. 15, p. 263-264.)

Recommends use of naphthaline ($C_{10}H_8$) to keep mites out of collections.
G: D. (3208)

Corbett, H. H. The bad season for lepidoptera. (Entomologist, Oct. 1882, v. 15, p. 236.)

Limited number of species, but great number of individuals of a few species, of lepidoptera in England during 1882.
G: D. (3209)

Dalla Torre, K: W. Addenda et corrigenda zu Hagens Biblioth. entomolog., bis 1862. (Entom. nachrichten, 15 Dec. 1878, jahrg. 4, p. 324-330.)

Additions to and corrections of H. A. Hagen's "Bibliotheca entomologica" [Rec., 3306]. For continuation, see author's "Addenda und corrigenda" . . . (op. cit., 1880, jahrg. 6) [Rec., 3301], "Addenda und corrigenda;" . . . (op. cit., 1 Feb. 1881, jahrg. 7, p. 45-48) [Rec., 3302], and "Addenda et corrigenda" . . . (op. cit., 1 June 1881, jahrg. 7, p. 163-170) [Rec., 3303].
G: D. (3300)

Dalla Torre, K: W. Addenda und corrigenda zu Hagen's: Bibliotheca entomologica II. (Entom. nachrichten, 1880, jahrg. 6: 15 June, p. 125-129; 1 July, p. 137-140; 1 Aug., p. 168-171; 1 Dec., p. 261-267.)

Additions to and corrections of H. A. Hagen's "Bibliotheca entomologica" . . . [Rec., 3306], continued from author's "Addenda et corrigenda" . . . (op. cit., 15 Dec. 1878, jahrg. 4, p. 324-330) [Rec., 3300], which see.
G: D. (3301)

Dalla Torre, K: W. Addenda und corrigenda zu Hagens Bibliotheca entomologica. III. (Entom. nachrichten, 1 Feb. 1881, jahrg. 7, p. 45-48.)

Additions to and corrections of H. A. Hagen's "Bibliotheca entomologica" . . . [Rec., 3306]. Continued from author's "Addenda und corrigenda" . . . (op. cit., 1880, jahrg. 6) [Rec., 3301]; see also author's "Addenda et corrigenda" . . . (op. cit., 15 Dec. 1878, jahrg. 4, p. 324-330) [Rec., 3300].
G: D. (3302)

Dalla Torre. K: W. Addenda et corrigenda zu Hagen's Bibliotheca entomologica. IV. (Entom. nachrichten, 1 June 1881, jahrg. 7, p. 163-170.)

Additions to and corrections of II. A. Hagen's "Bibliotheca entomologica" . . . [Rec., 3306]. Continued from author's "Addenda und corrigenda" . . . (op. cit., 1 Feb. 1881, jahrg. 7, p. 45-48) [Rec., 3302]; see also author's "Addenda et corrigenda" . . . (op. cit., 15 Dec. 1878, jahrg. 4, p. 324-330) [Rec., 3300].

G: D. (3303)

Dobson. H. T., jr. The effect of heat upon *notodonta dictaca*. (Entomologist, March 1882, v. 15, p. 65-67.)

Alteration of the normal time of appearance of *notodonta dictaca* by the season being milder or colder.

G: D. (3304)

Dobson. H. T., jr. Prevention of mould. (Entomologist, Nov. 1882, v. 15, p. 264.)

Effect of the use of carbolic acid in preventing mold in collections, and effect of cyanizing on some lepidoptera.

G: D. (3305)

Hagen. Hermann August. Bibliotheca entomologica. Die litteratur über das ganze gebiet der entomologie bis zum jahre 1862. 2 v. Lpz. W. Engelmann, 1862-1863. Bd. 1. A-M. 1862. t.-p., 12+566 p. Bd. 2. N-Z. Mit einem systematischen sachregister. t.-p. + 512 p., 24 X 15. (18.2 X 11.)

Additions and corrections, by K: W. Dalla Torre, entitled "Addenda et corrigenda zu Hagens Biblioth. entomolog. bis 1862." (Entom. nachrichten, 15 Dec. 1878, jahrg. 4, p. 324-330.)

Additions and corrections, by K: W. Dalla Torre, entitled "Addenda et corrigenda zu Hagen's: Bibliotheca entomologica II." (Entom. nachrichten, 1880, jahrg. 6: 15 June, p. 125-129; 1 July, p. 137-140; 1 Aug., p. 168-171; 1 Dec., p. 261-267.)

Additions and corrections, by K: W. Dalla Torre, entitled "Addenda und corrigenda zu Hagens Bibliotheca entomologica. III." (Entom. nachrichten, 1 Feb. 1881, jahrg. 7, p. 45-48.)

Additions and corrections, by K: W. Dalla Torre, entitled "Addenda et corrigenda zu Hagen's Bibliotheca entomologica. IV." (Entom. nachrichten, 1 June 1881, jahrg. 7, p. 163-170.)

Bibliography of 1810 writings on entomology, besides extracts, reviews, and translations, by 476 named and 851 anonymous authors, from the earliest times down to the year 1862, with designation, as a guarantee of accuracy, of the 14334 titles transcribed from the works themselves by the author, and with a minutely analytical subject index; list of 19 entomological societies, and of the entomological publications of 11 societies; description of the author's methods, and discussion of the principles of construction of the bibliography.

B: P. M. (3300)

Riley. C: Valentine. The boll-worm alias corn-worm. *Heliothis armigera* Hüb. (Rept. [U. S.] commiss. agric., for 1881 and 1882 [Jan. 1883], p. 145-149, pl. 1; pl. 12, fig. 1.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 145-149 [85-89], pl. 1; pl. 12, fig. 1.)

Advance reprint, from 4th report of U. S. entomological commission, of section on the food-plants of *heliothis armigera*, other than cotton; list of these food-plants, and of authorities upon which the respective statements are made; history of first proofs of the identity of this species on maize with the same on cotton; habits of the larvae in their several broods; figures of all stages of the insect.

B: P. M. (3307)

Riley. C: Valentine. The catalpa sphinx. *Sphinx catalpae* Boisd. (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 189-193, pl. 13.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 189-193 [129-133], pl. 13.)

Relative excellence of *catalpa speciosa* and *c. bigonionoides* as timber-trees, according to J: A. Warder; geographical distribution, habits, ravages and parasites of and means against *sphinx catalpae*; description and figures of all stages of this insect; description of supposed sound-producing organs in pupae of this and other species.

B: P. M. (3308)

Riley. C: Valentine. The clover leaf-beetle. *Phytomyzus punctatus* Fabr. (Rept. [U. S.] commiss. agric., for 1881 and 1882 [Jan. 1883], p. 171-179, pl. 10, fig. 1.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 171-179 [111-119], pl. 10, fig. 1.)

Food-plants and habits of the species of *phytomyzus* in Europe and United States; civil and natural history, number of annual broods, ravages, enemies and geographical distribution of and means against *ph. punctatus*; description and figures of eggs, larva (four stages) and pupa of this species; figures of imago and of injured plant; report, by E. A. Schwarz, of observations on this insect in New York; *hydulus trifolii* seems to feed only on *trifolium pratense*; coleoptera imported from Europe usually confined to the neighborhood of the Atlantic coast.

B: P. M. (3309)

Riley. C: Valentine. The corn bill-bug. *Sphenophorus robustus* Horn. (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 138-142, pl. 7, fig. 2; pl. 8, fig. 2.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 138-142 [78-82], pl. 7, fig. 2; pl. 8, fig. 2.)

History of earlier observations on the species of *sphenophorus* injurious to maize in the United States; report of observations on *s. robustus*, by L. O. Howard; habits and ravages of *s. robustus*; description and figure of larva, pupa and imago of this species and description of larvae of *rhabdobaculus tricarinatus* and *rhabdobaculus zimmermanni*, and figures of imago of the former; characters distinguishing *sphenophorus* and *s. robustus* and the four other species allied to it from other genera and species.

B: P. M. (3310)

Riley, C: Valentine. *Crambus vulgivagellus*. (Amer. nat., Nov. 1881, v. 15, p. 914-915.)

Records the excessive abundance of this species in the eastern United States in 1881; description of the egg; method of oviposition. *B: P. M.* (3311)

[Riley, C: Valentine.] A disastrous sheep parasite. (Amer. nat., Dec. 1881, v. 15, p. 1011.)

A parasite, probably *trichodectes ovis*, doing great injury to sheep in Illinois. *G: D.* (3312)

[Riley, C: Valentine.] *Dolerus unicolor*. (Amer. nat., July 1881, v. 15, p. 574.)

Statement, by H. Keegan, that the imagos of *dolerus unicolor* injured the fruit buds of pear-trees at Quaker City, Ohio, by eating holes therein; as this habit is a tenthredinid imago seems not to have been observed before, the statement is questioned. *B: P. M.* (3313)

Riley, C: Valentine. Effect of drought on the hessian fly. (Amer. nat., Nov. 1881, v. 15, p. 916.)

Hot and dry weather dries up and kills *cecidomyia destructor* and its parasites. *B: P. M.* (3314)

[Riley, C: Valentine.] Entomologist for the Pacific coast. (Amer. nat., Oct. 1881, v. 15, p. 821-822.)

Notice of attempts made to have a state entomologist appointed in California. *B: P. M.* (3315)

Riley, C: Valentine. Entomology in Buffalo, N. Y. (Amer. nat., Nov. 1881, v. 15, p. 917.)

Notice of v. 4, no. 1, of the Bulletin of the Buffalo society of natural sciences; list of entomological papers therein. *B: P. M.* (3316)

[Riley, C: Valentine.] Exuviation in flight. (Amer. nat., May 1881, v. 15, p. 395.)

Criticises R. McLachlan's observation that *oligoneura rhenana* casts its subimaginal skin while on the wing; describes the process in *polymitarcys alba*; excessive abundance of the latter species on the Red River of the North [Minnesota], in August 1877. *B: P. M.* (3317)

Riley, C: Valentine. Insect collection for sale. (Amer. nat., Dec. 1881, v. 15, p. 1014.)

Notice of the collection of coleoptera left by C. T. Brainerd, of New Orleans, at his death. *B: P. M.* (3318)

Riley, C: Valentine. Insect enemies of the rice plant. (Amer. nat., Feb. 1881, v. 15, p. 148-149.)

Identifies *chalepus trachypygus* feeding on roots of the rice-plant, and conjectures that other mentioned enemies of rice may be *spalacopsis suffusa* and *centrinus concinnus*. Rice-plant in India injured by *cecidomyia oryzae*. *B: P. M.* (3319)

[Riley, C: Valentine.] Insect locomotion. (Amer. nat., Apr. 1881, v. 15, p. 325.)

Results of G. Carlet's studies on the order in which the feet are moved in the walking of hexapods and arachnids. *B: P. M.* (3320)

Riley, C: Valentine. Larval habits of *sphenophori* that attack corn. (Amer. nat., Nov. 1881, v. 15, p. 915-916.)

Mentions several species of *sphenophorus* injurious to maize plants in different parts of the U. S.; habits and ravages of *s. robustus*. *B: P. M.* (3321)

Riley, C: Valentine. Migration of butterflies. (Amer. nat., July 1881, v. 15, p. 577.)

Report, by J. H. Mellichamp, of the eastward flight of thousands of *pieris monuste*, in small groups of two, three or more individuals, on 1 and 2 June 1881, over Bluffton, S. C.; description of larva and pupa; larva feeds on *clome pentaphylla* and *polanisia trachysperma*. *B: P. M.* (3322)

[Riley, C: Valentine.] Migration of plant lice from one plant to another. (Amer. nat., Oct. 1881, v. 15, p. 819-820.)

Exposition of J. Lichtenstein's theory that most *aphididae*, especially gall-making *pepmigini*, live upon two different plants in passing through their cycle of development; cites instances in which the host-plants are of different families. *B: P. M.* (3323)

[Riley, C: Valentine.] Moths mistaken for *aletia*. (Amer. nat., June 1881, v. 15, p. 486-487.)

Plathypena scabra and *phoberia atomaris* mistaken for *aletia argillacea*; hibernation habits of the first. *B: P. M.* (3324)

Riley, C: Valentine. The new imported clover enemy. (Amer. nat., Nov. 1881, v. 15, p. 912-914.)

Records occurrence and habits of *phytonomus punctatus*, injurious to *trifolium* in New York, describes the egg and larva of this species, and gives a list of food-plants of the European species of *phytonomus*. *B: P. M.* (3325)

[Riley, C: Valentine.] A new imported enemy to clover. (Amer. nat., Sept. 1881, v. 15, p. 750-751.)

Clover [*trifolium*] injured by *phytonomus punctatus* at Barrington, N. Y., in July 1881. *B: P. M.* (3326)

Riley, C: Valentine. A new rice stalk-borer: genus-grinding. (Amer. nat., Dec. 1882, v. 16, p. 1014-1015.)

Extract from author's "The rice stalk borer" ... (Rept. (U. S.) commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], [Rec., 332]), p. 134-135, with additional remarks; *chilo oryzaeetus* = *diphrys protatella*; the genus *diphrys* stated by Lord Walsingham [T: de Grey] to have been founded by A. R. Grote on a mutilated specimen (as suspected by the author), with mistake of maxillary for labial palpi. *B: P. M.* (3327)

Riley, C: Valentine. A new species of oak coccid mistaken for a gall. (Amer. nat., June 1881, v. 15, p. 482.)

Description of *kermes galliformis* n. sp., occurring on *guercus palustris* in the southern and central U. S.; the coccid often infested by *eulcenus bassettella*.
B: P. M. (3328)

Riley, C: Valentine. The osage orange sphinx. *Sphinx hageni* Grote. (Rept. [U. S.] commiss. agric., for 1881 and 1881, 1882 [Jan. 1883], p. 193-194, pl. 12, fig. 2.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 193-194 [133-134], pl. 12, fig. 2.)

List of insects injurious to *machura aurantiaca*; geographical distribution and classificatory relations of *sphinx hageni*; references to other accounts of this insect; description and figures of larva and imago.
B: P. M. (3329)

Riley, C: Valentine. Other insects injurious to growing rice. (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 138, pl. 7, fig. 4-5.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 138 [78], pl. 7, fig. 4-5.)

Habits and food-plants of *laphygma frugiperda*; occurrence of certain other insects doing minor damage on rice plants.
B: P. M. (3330)

Riley, C: Valentine. The rice grub. *Chalepus trachypygus* Burm. (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 128-129, pl. 6, fig. 5.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 128-129 [68-69], pl. 6, fig. 5.)

Report of L. O. Howard on the habits and ravages of and means against *chalepus trachypygus*; references to earlier observations; structural characters and geographical distribution of the genera *cyclocephala* and *chalepus*; description and figure of larva and imago of *ch. trachypygus*.
B: P. M. (3331)

Riley, C: Valentine. The rice stalk borer. *Chilo oryzaeclus*, n. sp. (Rept. [U. S.] commiss. agric., for 1881 and 1882 [Jan. 1883], p. 133-135, pl. 7, fig. 1.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 133-135 [73-75], p. 3 [167], pl. 7, fig. 1.)

Extract, with additions, by author, entitled "A new rice stalk-borer: genus grinding." (Amer. nat., Dec. 1882, v. 16, p. 1014-1015.)

Description and figures of larva, pupa and imago of *chilo oryzaeclus* n. sp. = *diphrys prolata*; report of L. O. Howard upon its habits, enemies and ravages, and means against it; structural characters of the genus *diphrys* stated by Lord Walsingham [T. de Grey] (as suspected by author) to have been founded by A. R. Grote on a mutilated specimen, with mistake of maxillary for labial palpi.
B: P. M. (3332)

Riley, C: Valentine. The urena anomis. *Anomis erosa* Hub. (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 167-170, pl. 8, fig. 1.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 167-170 [107-110], pl. 8, fig. 1.)

Detailed comparison of eggs of *anomis erosa* and *aletria xyloina*; figures and description of all states of the former species; seasons, habits and food-plants of this insect.
B: P. M. (3333)

Riley, C: Valentine. The vagabond crab-cabbageworm. *Crambus vulgivagellus* Clem. (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 179-183, p. 3, pl. 10, fig. 2.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 179-183 [119-123], p. [167], pl. 10, fig. 2.)

Civil and natural history of *crambus vulgivagellus*; habits, ravages and parasites of and means against this insect; description and figures of egg, larva and imago; figures of cocoons and injured grass; description of pupa; list of articles written concerning this insect; similarity of habits of *crambus warringtonellus* of England to habits of *c. vulgivagellus*.
B: P. M. (3334)

Riley, C: Valentine. The "water-weevil" of the rice plant. (Amer. nat., June 1881, v. 15, p. 482-483.)

Extract, in author's "The water-weevil. *Lissorhoptrus simplex* Say." (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 130-133.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 130-133 [70-73].)

Remarks on the injury done to rice-plants by the larvae of *chalepus trachypygus*, and by other larvae formerly suspected to be those of *spalacopsis suffusa*, but now supposed, on the testimony of J: Screenen, to be larvae of *lissorhoptrus simplex*; letter from J: Screenen, embodying the above testimony; seasons, habits and ravages of the last mentioned species.
B: P. M. (3335)

Riley, C: Valentine. White blast. (Rept. [U. S.] commiss. agric., for 1881 and 1882, 1882 [Jan. 1883], p. 136-137.) (RILEY, C: V. Report of the entomologist . . . [1 Dec.] 1882, p. 136-137 [76-77].)

Letter from J: Screenen and report from L. O. Howard on the phenomena and supposed causes of "white blast" in rice plants; insects found on rice plants; probable production of white blast by insects.
B: P. M. (3336)

Schiemann, Paulus. Ueber das herkommen des futtersaftes und die speicheldrüsen der biene nebst einem anhange über das riech-organ. (Zeitsch. f. wissenschaftl. zool., Feb. 1883, bd. 38, p. 71-135, pl. 5-7.)

Abstract by G: Dimmock, entitled, "Salivary glands in bees." (Psyche, Sept.-Oct. 1883, v. 4, p. 87-89.)

History of the subject; description of the salivary glands of *apis mellifica*, *bombus* and other bees, and of the digestive tract and olfactory organs of *a. mellifica*; discussion of the development and functions of the different salivary glands; decides that Engelmann's "neurid filaments" are not of neural nature.
G: D. (3337)